

Applicants: Virginia M. Litwin et al.
Serial No.: 09/891,062
Filed: June 25, 2001
Page 3

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1-39. (Canceled)

1 ~~40~~. (Currently Amended) A method of inhibiting HIV-1 infection of a CD4+ cell which comprises contacting the CD4+ cell with an amount of a monoclonal antibody or portion thereof effective to (a) specifically inhibit 67% or greater of fusion of a CD4+ PM-1 cell to a HeLa cell expressing envelope glycoprotein from HIV-1_{JR-FL}, and (b) inhibit 18% or less of fusion of a CD4+ SUP-T1 cell to a HeLa cell expressing envelope protein from HIV-1_{LAI}, wherein the antibody (i) does not crossreact with HIV-1 envelope glycoprotein or CD4, (ii) reacts with an antigen on the surface of a PM-1 cell having an approximate molecular weight of 44 kD, (iii) does not react with an antigen on the surface of a SUP-T1 cell, and (iv) is at least as active as monoclonal antibody PA-7 produced by the hybridoma designated PA-7 (ATCC Accession No. PTA-6638) in inhibiting fusion as recited in (a) above and less active than monoclonal antibody PA-6 produced by the hybridoma designated PA-6 (ATCC Accession No. PTA-6637) in inhibiting fusion as recited in (b) above, so as to thereby inhibit HIV-1 infection of the CD4+ cell.

2 ~~41~~. (Previously Presented) The method of claim ~~40~~¹, wherein the monoclonal antibody is a chimeric monoclonal antibody.

3 ~~42~~. (Previously Presented) The method of claim ~~40~~¹, wherein the

AMENDED
CLAIMS
05/14/06

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Serial No.: 09/891,062
Filed: June 25, 2001
Page 4

monoclonal antibody is humanized.

- 4 43. (Previously Presented) The method of claim 40¹, wherein the monoclonal antibody is a human monoclonal antibody.
- 5 44. (Previously Presented) The method of claim 40¹, wherein the portion of the monoclonal antibody is a single chain antibody or an antigen binding fragment.
- 6 45. (Previously Presented) The method of claim 40¹, wherein the monoclonal antibody is labeled with a detectable marker.
- 7 46. (Previously Presented) The method of claim 46⁶, wherein the detectable marker is a radioactive isotope, enzyme, dye or biotin.
- 8 47. (Previously Presented) The method of claim 40¹, wherein the CD4+ cell is present in the subject and the contacting is effected by administering the monoclonal antibody or portion thereof to the subject.